

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 30, 2004

PTAS



\*102692017A\*

LEON R. TURKEVICH  
2000 M STREET, N.W. SUITE 700  
WASHINGTON, D.C. 20036-3307

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 03/02/2004

REEL/FRAME: 015054/0423  
NUMBER OF PAGES: 10

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SAVAGE, DONNIE VAN

*03/02/2004*  
DOC DATE: ~~02/19/2003~~

ASSIGNOR:

SLICE, DONALD EARL, JR.

*02/23/2004*  
DOC DATE: ~~02/23/2003~~

ASSIGNOR:

BROOKS, ROY MICHAEL

DOC DATE: 02/19/2004

ASSIGNOR:

BIRKNER, MATTHEW HENRY

DOC DATE: 02/19/2004

ASSIGNEE:

CISCO TECHNOLOGY, INC.  
170 WEST TASMAN DRIVE  
SAN JOSE, CALIFORNIA 95134-1706

015054/0423 PAGE 2

SERIAL NUMBER: 10790204

FILING DATE: 03/02/2004

PATENT NUMBER:

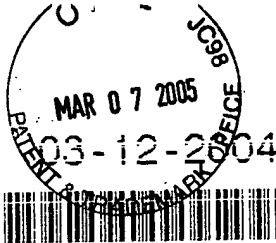
ISSUE DATE:

TITLE: ROUTER CONFIGURED FOR OUTPUTTING UPDATE MESSAGES SPECIFYING A  
DETECTED ATTRIBUTE CHANGE OF A CONNECTED ACTIVE PATH ACCORDING TO A  
PRESCRIBED ROUTING PROTOCOL

AMUKHARI MULLINS, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

## BOX ASSIGNMENTS

DO NOT USE FOR TRADEMARKS

R SHEET  
ENTS ONLY

TO THE HONORABLE DIRECT

102692017

S AND TRADEMARK OFFICE:

SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

## 1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR(S)):

1. Donnie Van Savage  
2. Donald Earl Slice, Jr.

3. Roy Michael Brooks  
4. Matthew Henry Birkner

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES☒ NO

## 2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: Cisco Technology, Inc.

ADDRESS: 170 West Tasman Drive, San Jose, CA 95134-1706

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES☒ NO

## 3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation -- multiple copies of same Assignment signed by different inventors is one document)☒

ASSIGNMENT OF

☒

WHOLE

☐

PART INTEREST

EXEC. DATE: February 19 and 23, 2003;  
March 2, 2004

10790204

4. EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (**NOTE:** IF DATES -- DIFFER SEE ATTY!): February 19 and 23, 2003; March 2, 20044.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NOA. PAT. APP. NO.(S) M#  
series code/serial no

M#

10-009

1ST INVENTOR  
if not in item 1

B. PATENT NO(S) M#

M#

1ST INVENTOR  
if not in item 1

## 5. Name &amp; Address of Party to Whom Correspondence Concerning Document Should be Mailed:

Leon R. Turkevich  
2000 M Street, N.W. Suite 700  
Washington, DC 20036-3307

## 6. NUMBER INVOLVED:

APPLNS 1 + PATS: = TOTAL 1

7. AMOUNT OF FEE ENCLOSED: (Code 581) . . . . .  
ABOVE TOTAL X \$40 = \$ 40

## 5.5 ATTY DKT:

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE  
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 50-1130  
Order No. 10-009

10-009

8096

MATTER NO.

CLIENT REF:

## 9. STATEMENT AND SIGNATURE. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Signature:

Attorney: Leon R. Turkevich

Reg. No. 34,035

Atty/Sec: LRT/ljc

10. Total number of pages including this  
cover sheet, attachments and document  
(do not file dup. Cover sheet)

10

Date: March 2, 2004

Fax: (202) 887-0336

TEL: (202), 261-1059

FILE WITH PTO RETURN RECEIPT

101 101 101 0000005 10790204

40.00 DP

030204

ASSIGNMENT

WHEREAS WE, DONNIE VAN SAVAGE of Raleigh, North Carolina, DONALD EARL SLICE, JR. of Cary, North Carolina, ROY MICHAEL BROOKS of New Hill, North Carolina, and MATTHEW HENRY BIRKNER of Apex, North Carolina, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled ROUTER CONFIGURED FOR OUTPUTTING UPDATE MESSAGES SPECIFYING A DETECTED ATTRIBUTE CHANGE OF A CONNECTED ACTIVE PATH ACCORDING TO A PRESCRIBED ROUTING PROTOCOL, executed by us on the date of execution of this document, as shown below, and filed concurrently herewith;

AND WHEREAS, Cisco Technology, Inc., a corporation of the State of California and having an address of 170 West Tasman Drive, San Jose, CA 95134-1706 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, I do hereby sell, assign, transfer and set over unto Cisco Technology, Inc., its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATIONS, I hereby agree with the said assignee that I will not execute any writing or do any act whatsoever conflicting with these presents, and that I will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or causes in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

AND I request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said Cisco Technology, Inc., its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

Docket No.: 10-009

2-MH-2004

Date

Donnie Van Savage  
DONNIE VAN SAVAGE

STATE OF NORTH CAROLINA )  
COUNTY OF Durham ) SS:

On this 2 day of March, 2004, before me personally appeared DONNIE VAN SAVAGE, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

SEAL



Melony D. Hannon  
Notary Public

My commission expires 5/27/2006

Date:

DONALD EARL SLICE, JR.

STATE OF NORTH CAROLINA )  
COUNTY OF \_\_\_\_\_ ) SS:

On this \_\_\_\_\_ day of \_\_\_\_\_, 2004, before me personally appeared DONALD EARL SLICE, JR., personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

Date

ROY MICHAEL BROOKS

STATE OF NORTH CAROLINA )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2004, before me personally appeared ROY MICHAEL BROOKS, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

SEAL

Notary Public

My commission expires \_\_\_\_\_

Date

MATTHEW HENRY BIRKNER

STATE OF NORTH CAROLINA )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2004, before me personally appeared MATTHEW HENRY BIRKNER, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

SEAL

Notary Public

My commission expires \_\_\_\_\_

ASSIGNMENT

WHEREAS WE, DONNIE VAN SAVAGE of Raleigh, North Carolina, DONALD EARL SLICE, JR. of Cary, North Carolina, ROY MICHAEL BROOKS of New Hill, North Carolina, and MATTHEW HENRY BIRKNER of Apex, North Carolina, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled ROUTER CONFIGURED FOR OUTPUTTING UPDATE MESSAGES SPECIFYING A DETECTED ATTRIBUTE CHANGE OF A CONNECTED ACTIVE PATH ACCORDING TO A PRESCRIBED ROUTING PROTOCOL, executed by us on the date of execution of this document, as shown below, and filed concurrently herewith;

AND WHEREAS, Cisco Technology, Inc., a corporation of the State of California and having an address of 170 West Tasman Drive, San Jose, CA 95134-1706 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, I do hereby sell, assign, transfer and set over unto Cisco Technology, Inc., its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATIONS, I hereby agree with the said assignee that I will not execute any writing or do any act whatsoever conflicting with these presents, and that I will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or causes in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

AND I request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said Cisco Technology, Inc., its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

\_\_\_\_\_  
Date

\_\_\_\_\_  
DONNIE VAN SAVAGE

STATE OF NORTH CAROLINA     )  
  ) SS:  
COUNTY OF \_\_\_\_\_)

On this \_\_\_\_\_ day of \_\_\_\_\_, 2004, before me personally appeared DONNIE VAN SAVAGE, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

S E A L

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
DONALD EARL SLICE, JR.

STATE OF NORTH CAROLINA     )  
  ) SS:  
COUNTY OF \_\_\_\_\_)

On this \_\_\_\_\_ day of \_\_\_\_\_, 2004, before me personally appeared DONALD EARL SLICE, JR., personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

S E A L

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_



2-19-2004

Date

Roy Michael Brooks  
ROY MICHAEL BROOKS

STATE OF NORTH CAROLINA )  
COUNTY OF Durham ) SS:

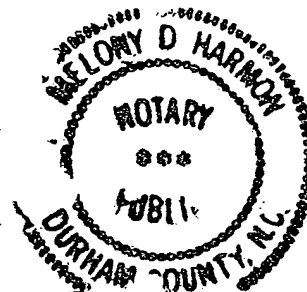
On this 19 day of FEB, 2004, before me personally appeared ROY MICHAEL BROOKS, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

SEAL

Melony D. Harmon  
Notary Public

My commission expires 5/27/2006



2-19-04

Date

Matthew Henry Birkner  
MATTHEW HENRY BIRKNER

STATE OF NORTH CAROLINA )  
COUNTY OF Durham ) SS:

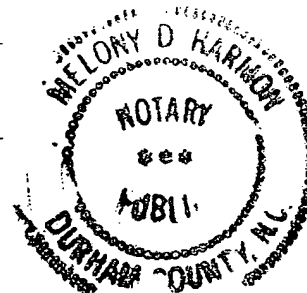
On this 19 day of FEB, 2004, before me personally appeared MATTHEW HENRY BIRKNER, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

SEAL

Melony D. Harmon  
Notary Public

My commission expires 5/27/2006



## ASSIGNMENT

WHEREAS WE, DONNIE VAN SAVAGE of Raleigh, North Carolina, DONALD EARL SLICE, JR. of Cary, North Carolina, ROY MICHAEL BROOKS of New Hill, North Carolina, and MATTHEW HENRY BIRKNER of Apex, North Carolina, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled ROUTER CONFIGURED FOR OUTPUTTING UPDATE MESSAGES SPECIFYING A DETECTED ATTRIBUTE CHANGE OF A CONNECTED ACTIVE PATH ACCORDING TO A PRESCRIBED ROUTING PROTOCOL, executed by us on the date of execution of this document, as shown below, and filed concurrently herewith;

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NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, I do hereby sell, assign, transfer and set over unto Cisco Technology, Inc., its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATIONS, I hereby agree with the said assignee that I will not execute any writing or do any act whatsoever conflicting with these presents; and that I will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant; and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or causes in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

AND I request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said Cisco Technology, Inc., its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

Date \_\_\_\_\_ DONNIE VAN SAVAGE

STATE OF NORTH CAROLINA )  
 ) SS:  
COUNTY OF \_\_\_\_\_)

On this \_\_\_\_\_ day of \_\_\_\_\_, 2004, before me personally appeared DONNIE VAN SAVAGE, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

SEAL

Notary Public

My commission expires \_\_\_\_\_

Date 2/23/04 Donald E. Slice, Jr.  
DONALD EARL SLICE, JR.

STATE OF NORTH CAROLINA )  
 ) SS:  
COUNTY OF Durham )

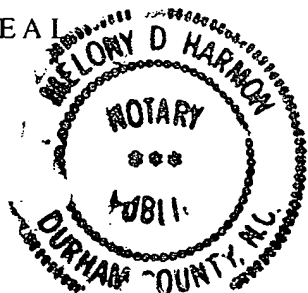
On this 23 day of February, 2004, before me personally appeared DONALD EARL SLICE, JR., personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

SEAL

Notary Public

My commission expires 5/27/2006



\_\_\_\_\_  
Date ROY MICHAEL BROOKS

STATE OF NORTH CAROLINA )  
 ) SS:  
COUNTY OF \_\_\_\_\_)

On this \_\_\_\_\_ day of \_\_\_\_\_, 2004, before me personally appeared ROY MICHAEL BROOKS, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

\_\_\_\_\_  
Date MATTHEW HENRY BIRKNER

STATE OF NORTH CAROLINA )  
 ) SS:  
COUNTY OF \_\_\_\_\_)

On this \_\_\_\_\_ day of \_\_\_\_\_, 2004, before me personally appeared MATTHEW HENRY BIRKNER, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_